

**I claim**

1. A white light LED assembly comprising at least two kinds of light-emitting units selected from a group consisting of

(a) a first white light-emitting unit composed of red, green and blue LEDs;

5 (b) a second white light-emitting unit composed of a blue and yellowish-green LEDs;

(c) a third white light-emitting unit composed of a blue LED and yellow phosphor; and

10 (d) a fourth white light-emitting units composed of UV LED and red, green and blue phosphors.

2. The white light LED assembly as in claim 1, further comprising a controller to control a luminance of each LED in the white light LED assembly.

3. The white light LED assembly as in claim 1, wherein the LEDs in the first white light-emitting unit are manufactured from InGaAlP, InGaN and Gap material.

4. The white light LED assembly as in claim 1, wherein the white light LED assembly comprises a first white light-emitting unit composed of red, green and blue LEDs, and a third white light-emitting unit composed of a blue LED and yellow phosphor.

20 5. The white light LED assembly as in claim 4, wherein the LEDs in the first white light-emitting unit are manufactured from InGaAlP, InGaN and Gap

material.

6. The white light LED assembly as in claim 2, wherein the controller has a memory unit for storing driving current data for each LED.

7. The white light LED assembly as in claim 2, wherein the controller is a  
5 controller IC.

8. The white light LED assembly as in claim 1, wherein the white light LED assembly can be applied in a lamp or LCD back light.